BRUHAT BANGALORE MAHANAGARA PALIKE
YELAHANKA ZONE

me of work: Estimate for Improvements to Roads and Drains at 1st Cross Bullet Krishnappa layout in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Estimate Cost Rs. 800000.00

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRRB 300-47. Scarifying kankar / gravel / metal crust upto 150mm thick with pick axes and disposal of stuff including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **Page No. 147 / Item No. 19.53 PWD SR 2016-17**	Sqm							
1st Cross Bullet Krishnappa Layout		1	70.00	5.10		357.00		
Basic Rate	25.00					**357.00**	26.50	**9461.00**
Area Weightage @ 6%	1.50							
Total	**26.50**							
KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	cum							
Drain Desilting		1	70.00	0.45	0.30	21.00		
For Road Work		1	70.00	5.10	0.20	14.00		
Basic Rate	82.00					**35.00**	199.36	**6978.00**
Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.5/km= 38.08	38.08							
Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	188.08							
Area Weightage @ 6%	11.28							
Total	**199.36**							
3 Removing B.S slab of drain and stacking **Page No. 25 / Item No. 5.32 PWD SR 2016-17**	Sqm							
		1	45.00		1.35	60.75		
Basic Rate	62.00					**60.75**	65.72	**3992.00**
Area Weightage @ 6%	3.72							
Total	**65.72**							
4 Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33 PWD SR 2016-17**	Sqm							
		Qty vide Item No. 2				**60.75**	80.56	**4894.00**
Basic Rate	76.00							
Area Weightage @ 6%	4.56							
Total	**80.56**							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
CC Road		1	70.00	5.10	0.15	53.55		
Basic Rate	4867.00					**53.55**	5159.02	**276266.00**
Area Weightage @ 6%	292.02							
Total	**5159.02**							
KSRB 5-14.2 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.2, PWD SR 2016-17**	Sqm							
CC Road		2	70.00		0.20	28.00		
Basic Rate	831.00					**28.00**	880.86	**24664.00**
Area Weightage @ 6%	49.86							
Total	**880.86**							
KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.6 PWD SR 2016-17**	Cum							
Vent		1	70.00	0.45	0.10	3.15		
Coping		2	70.00	0.20	0.10	2.80		
Ramp		1	70.00	0.30	0.10	2.10		
Basic Rate	5441.00					**8.05**	5767.46	**46428.00**
Area Weightage @ 6%	326.46							
Total	**5767.46**							
KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface** such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / Item No. 4.31 PWD SR 2016-17**	Sqm							
For CC Road		2	70.00		0.30	42.00		

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Basic Rate	293.00					**42.00**	310.58	**13044.00**
Area Weightage @ 6%	17.58							
Total	**310.58**							
Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - **M20**	Cum							
		1	70.00	5.10	0.125	44.63		
Basic Rate	5197.00					**44.63**	5508.82	**245831.00**
Area Weightage @ 6%	311.82							
Total	**5508.82**							
Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
		1	70.00	5.10		357.00		
Basic Rate	90.00					**357.00**	95.40	**34058.00**
Area Weightage @ 6%	5.40							
Total	**95.40**							
Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 25 / Item No. 5.31.1 PWD SR 2016-17**	Sqm							
For Covering Slab		1	70.00		0.90	63.00		
Basic Rate	779.00					**63.00**	825.74	**52022.00**
Area Weightage @ 6%	46.74							
Total	**825.74**							
KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 **Page No. 24 / Item No. 5.22, PWD SR 2016-17**	M							
		117	3.00			**350.00**	37.10	12985.00

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Basic Rate	35.00							
Area Weightage @ 6%	2.10							
Total	**37.10**							
KSRB 5-8.2 : Providing two line dressing to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 **Page No. 24 / Item No. 5.18, PWD SR 2016-17**	Sqm							
		Qty vide Item No. 11				63.00		
Basic Rate	909.00					**63.00**	963.54	**60703.00**
Area Weightage @ 6%	54.54							
Total	**963.54**							
Sub Total								**791326.00**
Third Party Inspection Charges @ 1%								**7913.00**
Miscellaneous and unforeseen charges	L/S							**761.00**
							Total	**800000.00**

Rupees Eight Lakh(s) Only

tificate:

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per P.W.D S.R of 2015-16.
This work included under 2016-17 POW Grant.
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

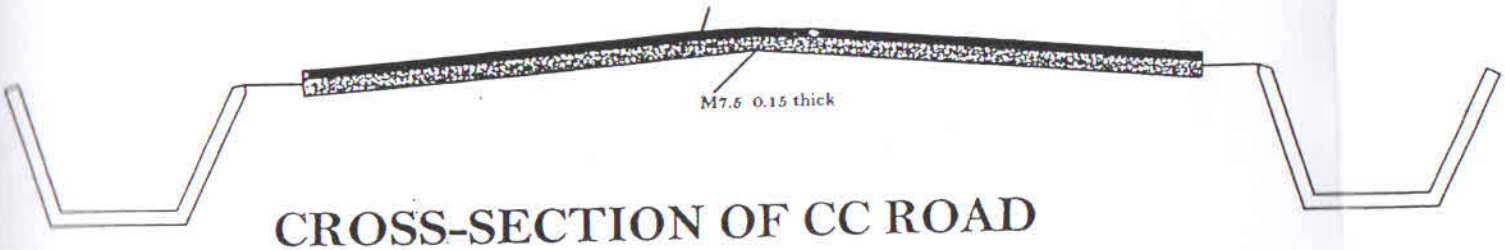
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer 12/01
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
12/01

ADMINISTRATIVE APPROVAL
Accorded For Rs. Eight Lakhs only
Head of A/c. P-1771
Div. Ref. No. 82/16-17 Date. 12/01/17
AE EE(BTP) 12/01

TECHNICAL SANCTION
Accorded For Rs. Eight- lakhs only
Head of A/c. P-1771
Div. Ref. No. 105/16-17 Date. 12/01/17
AE EE(BTP) 12/01

NAME OF WORK:-



CROSS-SECTION OF CC ROAD

INDEX

M7.5 1:4:8 0.15m Thick

M20 1:1.5:3 0.10m Thick

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.